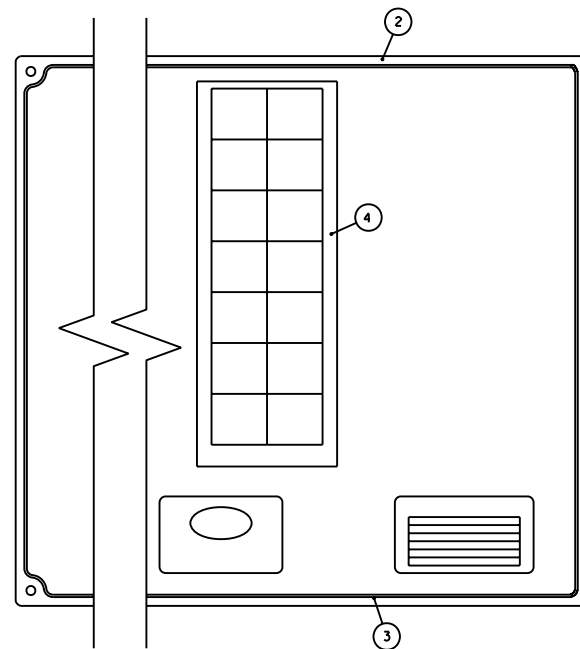
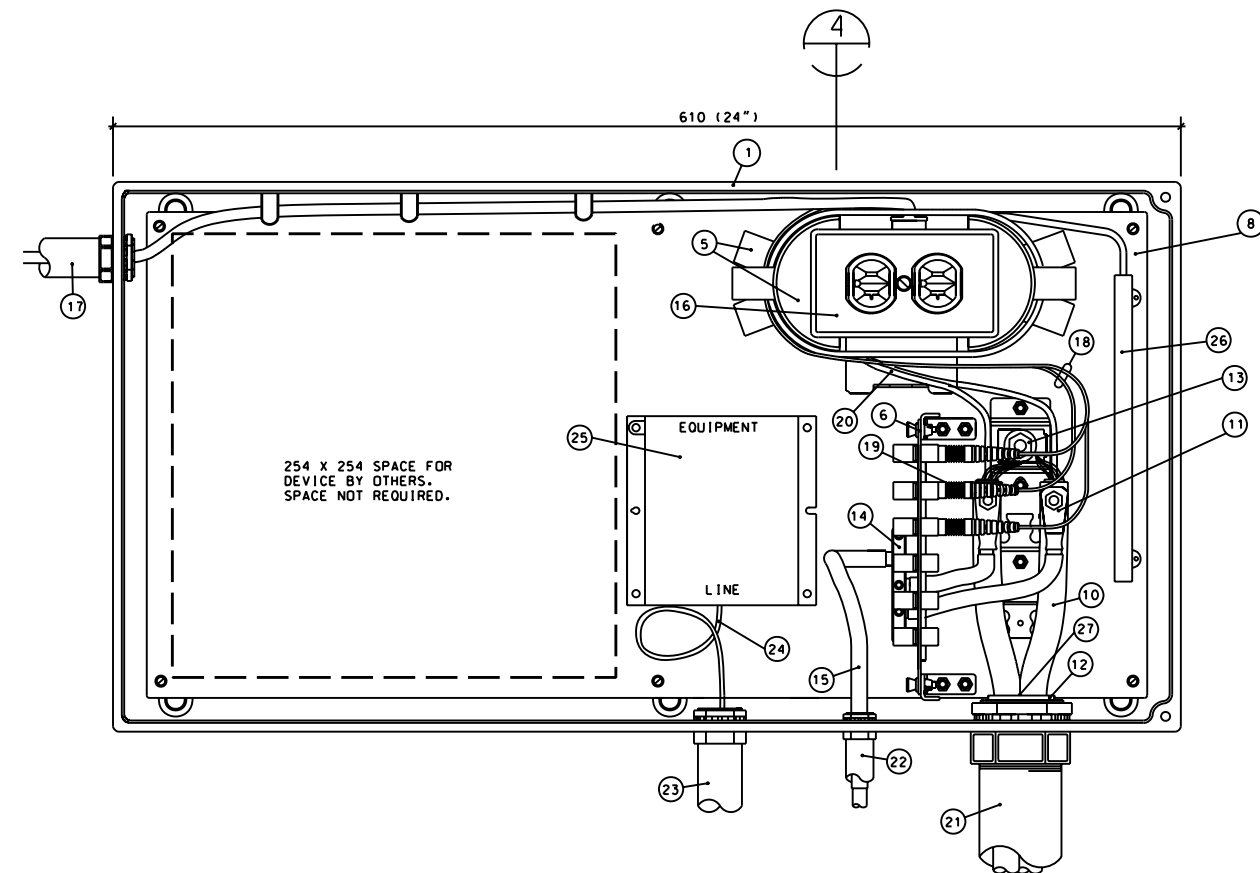


3 TYPICAL TARGET DATA PANEL (TDP) DETAIL

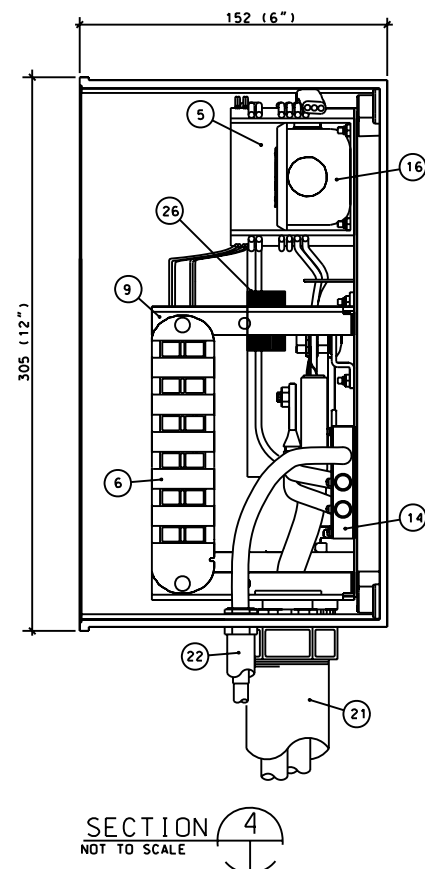
NOT TO SCALE



2 TYPICAL ENCLOSURE COVER  
NOT TO SCALE



1 TYPICAL MASTER TARGET DATA PANEL (MTDP) DETAIL  
NOT TO SCALE



SECTION 4  
NOT TO SCALE

NOTES TO DESIGNERS:

1. THESE ARE EXAMPLES OF POSSIBLE SOLUTIONS FOR THE MTPD AND TDP. ALTERNATIVE INSTALLATION METHODS MAY BE PROVIDED SO LONG AS FUNCTIONAL REQUIREMENTS FOR THE MTPD AND TDP DEFINED IN THIS MANUAL ARE MET.
2. THIS EXAMPLE SHOWS ALL EQUIPMENT THAT CAN BE REQUIRED IN A MTPD. ALL MTPD'S WILL NOT REQUIRE ALL OF THIS EQUIPMENT. EQUIPMENT REQUIRED IS DEPENDANT ON TYPE AND LOCATION OF TARGET EMPLACEMENT.
3. RECOMMEND NOT TO EXCEED THE COMBINATION OF 3 - CAT 5E AND 2 - 6 STRAND FIBER OPTIC CABLES ENTERING THE MASTER TARGET DATA PANEL.
4. DESIGNER SHALL PROVIDE ALL SIZES FOR ALL CONDUITS ENTERING THE MASTER TARGET DATA PANEL ON ALL CONTRACT DRAWINGS.
5. THIS SHEET DEPICTS FUSION SPLICES IN THIS MASTER TARGET DATA PANEL. DESIGNER MAY ELECT TO TERMINATE ALL FIBER OPTIC CABLES IN EVERY BOX IN LIEU OF FUSION SPLICES.
6. THE EXAMPLE FOR THE TOP ON THIS SHEET IS OF A TOP USED IN A SIT CLUSTER SLAVE EMPLACEMENT. THERE MAY BE OTHER USES FOR A TOP WHERE THE EQUIPMENT VARIES FROM WHAT IS SHOWN ON THIS SHEET.

KEYED NOTES:

- (1) ENCLOSURE SHALL BE 16 GAUGE MINIMUM GALVANIZED STEEL SHEET METAL WITH A WALL MOUNT BRACKET. ENCLOSURE SHALL CARRY A NEMA 4 RATING IN ADDITION TO AN IEC 529 IP66 RATING.
- (2) HINGED, CLAMP-ON, OR BOLT-ON COVER WITH CORROSION-RESISTANT STAINLESS STEEL CAPTIVE SCREWS/CLAMPS.
- (3) SEAMLESS FOAM-IN-PLACE GASKET FOR A WATERTIGHT AND DUST-TIGHT SEAL.
- (4) CABLE IDENTIFICATION DIRECTORY
- (5) RADIUS CONTROL GUIDES
- (6) INJECTION-MOLDED PLASTIC CONNECTOR 12-PORT PATCH PANEL FOR FIELD INSTALLABLE CONNECTORS.
- (7) PROVIDE PERMANENT LABELS ON INCOMING AND EXITING CABLES IDENTIFYING DESTINATIONS.
- (8) METAL BASE PLATE TO SECURE COMPONENTS INSIDE ENCLOSURE
- (9) CONNECTOR PANEL SUPPORT BRACKETS
- (10) ONE OR TWO 6-STRAND ARMORED TYPE FIBER OPTIC CABLE(S). PREPARE CABLE AND INSTALL A SHEATH RETENTION CLAMP. SECURE CABLE TO SHEATH RETENTION BRACKET.
- (11) METALLIC CABLE SHEATH GROUNDING CLAMP AND GROUNDING CONNECTOR
- (12) CONDUIT SEALING BUSHING WITH SLOTTED PVC COATED STEEL DISCS, NEOPRENE SEALING RING AND STAINLESS STEEL SOCKET HEAD CAP SCREWS AND WASHERS
- (13) CENTRAL MEMBER STRAIN-RELIEF BRACKET WASHER AND HEX NUTS
- (14) GROUND BAR - SECURE TO METAL BASE PLATE
- (15) #6 AWG. 600 VOLT INSULATED GROUNDING CONDUCTOR
- (16) DUPLEX RECEPTACLE (DPR-DATA POWER RECEPTACLE) - 20 AMP. 125 VOLT. 2 POLE. 3 WIRE GROUNDING TYPE IN A STANDARD SINGLE-GANG METAL BOX AND GALVANIZED STEEL DEVICE PLATE
- (17) 2/0 #12 WITH GROUND TYPE "SO" CORD IN A CONDUIT FROM CIRCUIT BREAKER PANELBOARD FOR 120 VOLT. 1-PHASE SERVICE TO DUPLEX RECEPTACLE. RECEPTACLE SHALL NOT BE FED FROM ANY GROUND FAULT INTERRUPTING DEVICE.
- (18) FIBER TERMINATIONS. TERMINATE ALL STRANDS WITH "SC" CONNECTORS. ONLY 4 STRANDS OF FIBER ARE REQUIRED TO BE TERMINATED AT EACH EMPLACEMENT. 2 STRANDS MAY BE SPLICED AND CARRIED ONTO NEXT EMPLACEMENT IN DATA CIRCUIT. ALL 6 STRANDS SHALL BE TERMINATED WHEN ONLY ONE FIBER OPTIC CABLE ENTERS MASTER TARGET DATA PANEL.
- (19) FIELD INSTALLABLE "SC" TYPE CONNECTORS WITH BEND PROTECTOR. ALL CONNECTORS NOT SHOWN FOR CLARITY.
- (20) FIBER OPTIC CABLE BUFFER TUBES WITH 6-STRANDS OF FIBER EACH.
- (21) CONDUIT AND WATERTIGHT BOX CONNECTOR FOR FIBER OPTIC CABLES.
- (22) #6 AWG. 600 VOLT INSULATED GROUNDING CONDUCTOR IN CONDUIT TO TARGET EMPLACEMENT GROUND ROD
- (23) CONDUIT WITH WATERTIGHT BOX CONNECTOR FOR DIRECT BURIAL SHIELDED CAT. 5E CABLES.
- (24) DIRECT BURIAL GRADE CATEGORY 5E SHIELDED CABLES TO OTHER MASTER TARGET DATA PANELS. COIL 305 SLACK IN MTPD AND PROVIDE STRAIN RELIEF. BOND CABLE SHIELD TO MASTER TARGET DATA PANEL BASE PLATE GROUND.
- (25) CAT5E CABLE SURGE PROTECTOR. TERMINATE LINE SIDE ON 110 BLOCK AND PROVIDE EQUIPMENT SIDE WITH FEMALE RJ45 CONNECTOR. SURGE PROTECTORS MAY BE MOUNTED VERTICALLY ON BRACKETS IF NEEDED TO CONSERVE SPACE.
- (26) OPTIONAL FUSION SPLICE TRAY. ONLY REQUIRED IF FIBER STRANDS ARE SPLICED.
- (27) PROVIDE CABLE SEAL FITTINGS AROUND CABLES ENTERING BOX FROM UNDERGROUND. TYPICAL FOR ALL CABLE ENTERING MASTER TARGET DATA PANEL.

[illegible]

<b>U. S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE HUNTSVILLE, ALABAMA</b>	Designed by:		Date:	Rev.
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**RANGE AND TRAINING LAND PROGRAM  
STANDARD DESIGN MANUAL  
MASTER TARGET DATA PANEL EXAMPLE**

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